(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 18 August 2005 (18.08.2005)

(10) International Publication Number WO 2005/074929 A3

- (51) International Patent Classification7: A61K 31/4439, A61P 1/04, C07D 401/12
- (21) International Application Number:

PCT/EP2005/050334

- (22) International Filing Date: 27 January 2005 (27.01.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 04001775.8

28 January 2004 (28.01.2004)

- (71) Applicant (for all designated States except US): ALTANA PHARMA AG [DE/DE]; Byk-Gulden-Str. 2, 78467 Konstanz (DE).
- (72) Inventors; and
- Inventors/Applicants (for US only): KOHL, Bernhard [DE/DE]; Zum Bruehl 9, 78465 Konstanz (DE). MUELLER, Bernd [DE/DE]; Buecklestr. 84a, 78467 Konstanz (DE). STURM, Ernst [DE/DE]; Bohlstrasse 14, 78465 Konstanz (DE). HUMMEL, Rolf-Peter [DE/DE]; Altbohlstr. 32, 78315 Radolfzell (DE).
- (74) Agents: WOLF, Ulrich et al.; ALTANA Pharma AG, Byk-Gulden-Str. 2, 78467 Konstanz (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, N MG, N PH, PI TM, T ZM, 2

 W 54) Title: (54) Title: (9) PRAZOLE MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 6 October 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CALCIUM, POTASSIUM, ZINC, LITHIUM AND ALUMINIUM SALTS OF PANTOPRAZOLE AND (S)-PANTO-

(57) Abstract: The invention relates to calcium, potassium, zinc, lithium and aluminium salts of pantoprazole and (S)-pantoprazole salts and to medicaments comprising these compounds.